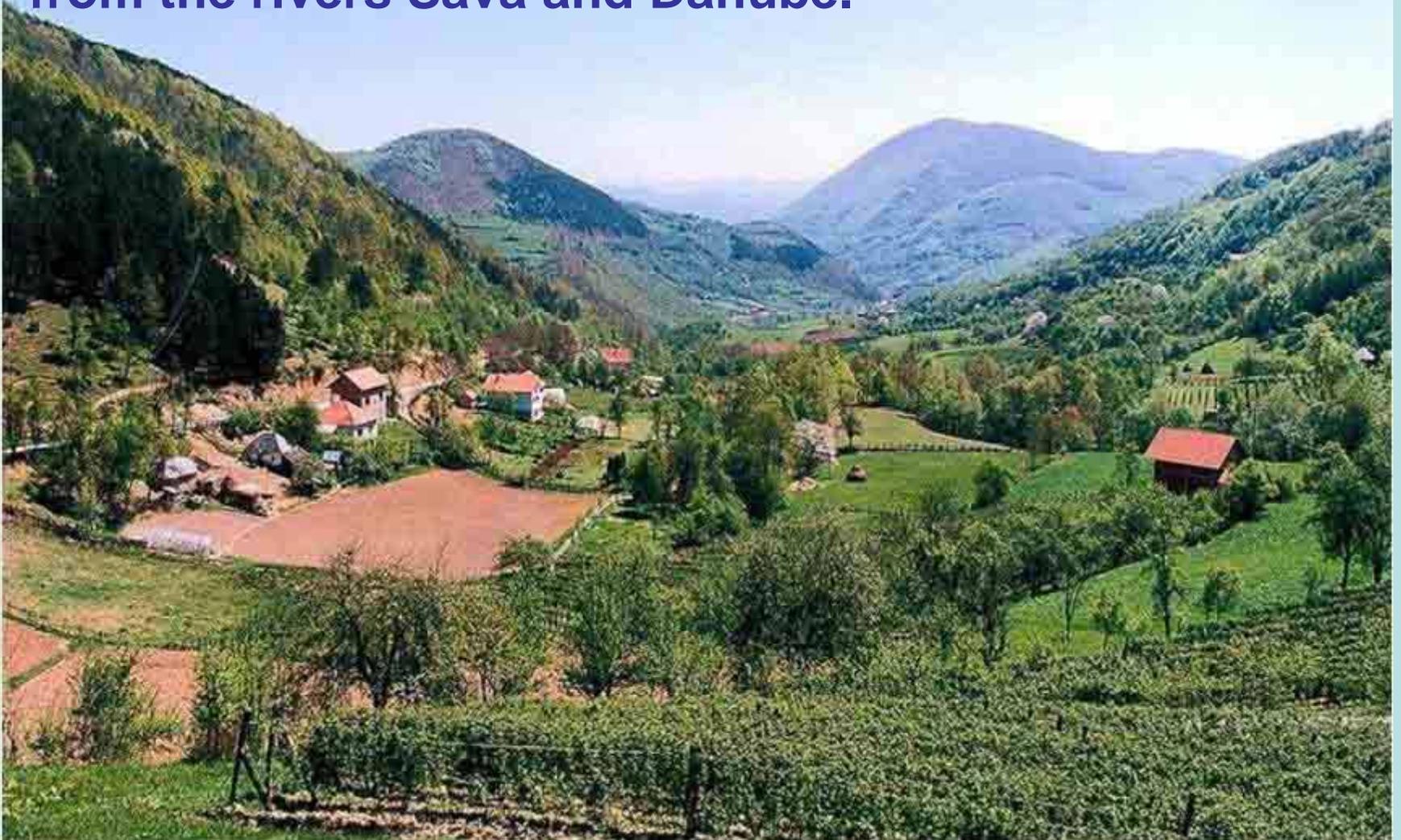




THE REVIEW OF SERBIAN RASPBERRY PRODUCTION

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Raspberry growing is mostly concentrated in the hilly-mountainous area of the Republic of Serbia, on south from the rivers Sava and Danube.



About 90% of harvested fruit is frozen and placed on world markets as four major products: IQF raspberry whole, IQF whole and broken, IQF raspberry crumble & IQF raspberry block.



RASPBERRY

Serbian Red Raspberries are prized for their color, flavor and firmness.

VITAMIN C

CARBOHYDRATES

ANTIOXIDANTS

ANTHOCYANINS

ORGANIC ACIDS

ELAGIC ACID

CULTIVARS



The cultivar *Willamette* has the greatest share in raspberry varietal structure (over 90 %)





Meeker



Over past decade the share of cv. **Meeker** has been increased in the regions suitable for raspberry growing

Cv Tulameen

Is newly introduced red raspberry cultivar with excellent fruit quality.

It is mainly used for fresh market.



PRIMOCANE RED RASPBERRY CULTIVARS

Polana



Autumn Bliss

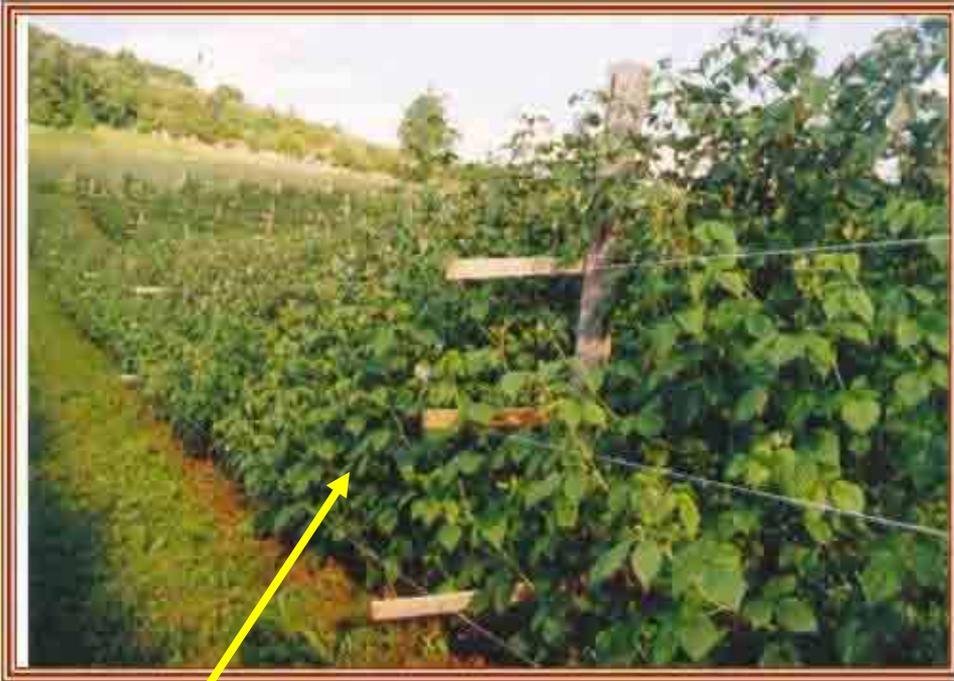


Heritage



There are few plantings with primocane fruiting raspberry cultivars and they are introduced into the production at slow rate.

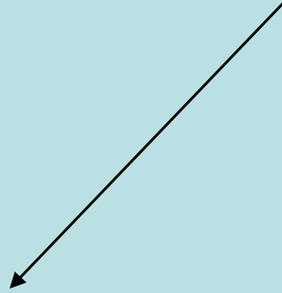
System of two wire vertical trellis



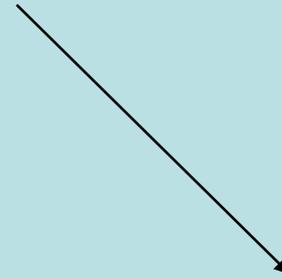
Vertical trellis system is formed with 2 m high posts and two lines of single wire to which canes are fastened.

Meeker and Tulameen cultivars require additional support because their fruitfull branches can grow to over 1m. They are extremely tender and often break due to the fruit load.

HARVESTING MODES



Mechanized raspberry harvesting



Manual raspberry harvesting



Harvesting is mostly manual and almost all raspberries are harvested into shallow open crates, no more than 2 kg each.





In Serbia, only 3-5 % of areas planted with raspberry are irrigated. The most common irrigation method is “drip “ system.

**Genetic
potential
of cultivars**

**Agricultural
methods**

**INTEGRATED
RASPBERRY
PRODUCTION**

**Biotechnological
methods**

**Minimal pesticides
application**



COLD STORAGE

An aerial photograph of a rural landscape. In the foreground, there are terraced vineyards with rows of grapevines. In the middle ground, a large, modern cold storage facility with a blue roof and walls is visible, surrounded by other smaller buildings and trees. The background features a large, forested hillside under a clear sky.

There are over two hundred cold storage with deep freezing regime (- 18 C), 100 – 10.000 t capacity.

Typical cold storage





In order to improve frozen fruit quality, attention should be paid to: cultivar selection, production and harvest modes, transportation of fruits to cold stores.



Fractions of frozen raspberry

IQF whole 45%-60%

IQF Crumble 30%-46%

IQF whole & broken 5%-15%

IQF Block 4%-10%

IQF Raspberry whole



IQF Raspberry crumble



Year	Area (ha)	Production (t)
1995	10.921	53.084
1996	12.140	62.658
1997	12.701	45.020
1998	12.842	63.815
2000	13.140	63.796
2001	14.756	77.781
2002	15.036	94.350
2003	15.354	69.554
2004	15.495	62.580
2005	15.413	84.309
2006	15.450	72.650
2007	15.550	65.720
2008	15.495	72.550
2009	15.413	74.300
2010	15.850	75.640
2011	16.340	84.050

PRESENT SITUATION



- With last year production of 84.050 t, the Republic of Serbia is one of major world producers and exporters of raspberries.
- In Serbia, raspberry is grown on about 16 thous. ha.
- About 90% of produced quantity is frozen and exported, and the remainder is sold as fresh fruit or is processed into other products.
- Raspberry fruits are of strategic importance for the Serbian economy.



Yield estimation for 2012?

The yield is anticipated to be reduced for ? % due to bad conditions during the crop(rain)

PRODUCTION STRATEGY

- introduction of new cultivars suitable for fresh consumption
- exclusive use of certified planting material for establishing plantings
- growing raspberry out of season in tunnels
- increasing the participation of organic production
- creating recognizable brands
- improving design and quality of packaging
- harvesting technology
- permanent education of agricultural producers